RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	MMM MMM MMM MMM MMM MMMMMM	\$
RRR RRR RRR RRR RRR RRR RRR RRR	MMMMM MMMMMM MMMMMMMMMMMMMMMMMMMMMMMMM	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$
RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	MMM	\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$
RRR RRR RRR RRR RRR RRR	MMM	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$
RRR RRR RRR RRR RRR RRR	MMM	\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$

_\$2

NTS NTS NTS NTS NTS NTS

NT: NT: NT: NT: NT: NT: NT: NT: NT:

NT NT NT NT NT NT

RRRRRRRR RR	MM	\$	000000 000000 00 00 00 0000 00 0000 00 00	\$	RRRRRRRR RR	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	HH H
		\$					

RP VC

RMSOSRCH Table of contents	SEARCH FOR NEXT WILDCARD FILE	16-SEP-1984 01:32:07	VAX/VMS Macro V04-00
(3) 99 (4) 119 (6) 559 (7) 613	DEFINITIONS RMS\$SEARCH, Search for next Filename in Sequence RM\$COPY RESULT, Return Result Name String RETDIRBDB, Deallocate Directory Buffer and BDB		

Page

V

(1)

RMSOSRCH VO4-000

VC

```
Facility: rms32
       Abstract:
                this is the highest level routine to perform the 
$remove and $search functions
       Environment:
                vax/vms
       Author:
                tim halvorsen
                                       AUG-1979
       Modified By:
                V03-014 JEJ0026
                                                   J E Johnson
                                                                                      11-Apr-1984
                            Tie off invalid network operations.
                           DGB0022 Donald G. Blair 06-Mar-1984 Use full-length FIB to support access mode protected files. Also change RM$RETDIRBDB to RETDIRBDB, a local
                V03-013 DGB0022
                            routine.
                V03-012 RAS0219
                                                   Ron Schaefer
                                                                                        8-Dec-1983
                            Change references to FWA$T_SWB subfield to separate structure.
                           RAS0201 Ron Schaefer 17-Oct-1983 Correct calls to RM$PARSE_FILE to account for the fact that it does NOT necessarily preserve R7.
                V03-011 RAS0201
                            Make sure we got a name, type and/or version from ESA/ESL.
                V03-010 KBT0585
                                                   Keith B. Thompson
                                                                                      12-Aug-1983
                            Cleanup fwa constants
                V03-009 KBT0559
                                                   Keith B. Thompson
                                                                                      20-Jul-1983
                            Convert DNF and FNF errors into NMF after a sucessful
                            search list operation
                           KBT0533 Keith B. Thompson 1-Jun-1983
Turn on search list processing and remove ref. to
RM$SKIP_SUBTREE (this was a JSB to a SSB!)
                V03-008 KBT0533
                                                                                      1-Jun-1983
                            RAS0122 Ron Schaefer 1-Feb-1983
Complete KBT0472 by correcting a problem that would
leave an IFAB marked busy if the saved NAM block IFI
                V03-007 RAS0122
                            was incorrect.
                V03-006 KBT0472 Keith B. Thompson fix some code i don't understand
                                                   Keith B. Thompson
                                                                                      24-Jan-1983
                V03-005 RAS0103
                                                                                      19-Nov-1982
                                                   Ron Schaefer
                           Correct saving of the caller's access mode so that exits via RM$EX_NOSTR have the caller's mode in R7; and correct DMW4004 to correctly save the mode in the IFB.
                V03-004 DMW4004
                                                   DMWalp
                                                                                       2-Sep-1982
```

16-SEP-1984 01:32:07 VAX/VMS Macro V04-00 5-SEP-1984 16:25:32 [RMS.SRC]RMSOSRCH.MAR;1

RP Sy

PS RP S/

RI S)

Ir Co Pa So Pa So Pa Cr As

	SEARCH F	OR NEXT WIL	DCARD FILE for next fil	N 1 16-SEP-1984 ename in 5-SEP-1984	01:32:07 VAX/VMS Macro V04-00 Page 5 16:25:32 [RMS.SRC]RMSOSRCH.MAR;1 (4)
	000	0 119	SBTTL	RMS\$SEARCH, Search f	for next Filename in Sequence
	000	0 120 0 121 :+1 0 122 : F 0 123 : F 0 125 : F 0 126 : F 0 129 :			
	000	0 123 F	RMS\$SEARCH		
	000	0 125	Search	for next filename in	sequence
	000	0 127 : F	RMS\$REMOVE		
	000	0 129 : 0 130 :	Remove	a directory entry	
	000	0 131 : i	inputs:		
	000 000 000 000 000 000 000 000 000 00	0 133 ; 0 134 ; 0 135 ;		dress of user argumen nam block contains if	it list fi of wildcard ifab
	000	0 136 : 0	outputs:		
	000	0 136 : 0 0 137 : 0 138 : 0 139 :	result fid/did	name string is return in nam block	ned to user buffer
	000	0 141 :			
7E 35	9A 0000	0 143 0 144 3 145	SENTRY MOVZBL BRB	RMS\$REMOVE #10\$_DELETE,-(SP) COMMON	; set acp function code = remove
7E 32	9A 000	5 147 5 148 8 149 8 150	\$ENTRY MOVZBL		<pre>; set acp function code = search ; this cannot be popped until ret ; since rm\$fset saves the sp for stall</pre>
	0000	F 152	MON: \$TSTPT	SEARCH	
	000i 000i 000i 000i	E 153 : 6 E 155 : 6 E 156 :	Get ifab and of nam block.		i which resides in wcc
FFEF'	30 0000 001 001	1 159 1 160	BSBW	RM\$FABCHK	check fab validity returns only if ok r11 = impure area r8 = fab address r7 = caller's access mode
07	13 001	1 162	BEQL	10\$; check IFI
24	11 001	8 164	RMSERR BRB	1F1 20\$: error if IFI non-zero
57 28 A8 FFDD. 56 57 57 8E 12 50	11 001 001 001 001 00 001 30 002 00 002 00 002 E9 002 B3 002	3 169	MOVL BSBW MOVL MOVL BLBC	R7 FAB\$L NAM(R8),R7 RM\$CHKNAM R7,R6 (SP)+,R7 R0,20\$: save caller's mode : get nam address : check nam validity : copy nam addr : restore caller's mode : if error : take the 'nostruct' error exit
32 A6 3FFE 8F	B3 002 002 003	F 174 2 175	BITW	NAMSL_WCC+2(R6),- #^C< <namsm_svctx!- NAMSM_SRCHNMF-</namsm_svctx!- 	check to see that no spurious bits other than the IFI bit, the search NMF bit, or the save context bit are

Ma - 9 - 7 TC 24 Th

	SEARCH FOR RMS\$SEARCH	NEXT WILDCAR Search for	D FILE	16-SEP-1984 0 ename in 5-SEP-1984 1	1:32:07 VAX/VMS Macro V04-00 P 6:25:32 [RMS.SRC]RMSOSRCH.MAR;1
66 1E 07 30 A6 5F	12 0032 E1 0034 0036 0039 11 003E 0040	176 177 178 179 180 181 20\$: 182 183 30\$:	BNEQ BBC RMSERR BRB	a-16>!1> ERRWCC #NAM\$V SRCHNMF,- NAM\$L_WCC(R6),30\$ NMF ENS	; set within the field NAM\$L_WCC ; error if illegal wcc value ; if NMF has been encountered, ; then go immediately return ; a status of NMF
59 30 A6	13 0044	184	MOVZWL BEQL	NAMSL_WCC(R6),R9	; get ifi of previous ifab ; branch if none
19 30 A6 02 A8 59 FFAE' 14 AB 04 06 69 39 5A 38 A9 1B	B0 0048 B0 0048 30 004F C0 0052 E1 0056 D0 005A 12 005E 0060 0064	185 186 187 188 189 190 191 192 193 194 40\$:	MOVW BSBW ADDL2 BBC MOVL BNEQ CSB	#NAM\$V IFI,- NAM\$L QCC(R6),50\$ R9,FAB\$W IFI(R8) RM\$FSET ALT1 #4,IMP\$L SAVED SP(R11) #IFB\$V SEARCH, (R9),40\$ IFB\$L_FWA_PTR(R9),R10 SRCH #IFB\$V_BUSY,(R9)	; if the IFI bit is not set then ; context has not been saved ; set internal ifi into fab ; setup with ifi in fab ; adjust FSET saved sp for acp code ; branch if not our type of ifab ; get fwa ; branch if have one ; don't leave this IFAB marked busy
	0064 0064 0064	198 ; strir 199 ;	revious on ng and pr	ontext can be found, pa	rse the expanded name
14 AB 04 57 28 A8 FF8E' 22 50 FF88' 10 50	0064 0064 0064 0064 0064 30 0067 D0 0068 30 006F E9 0072 30 0075 E9 0078	200 201 50\$: 202 203 204 205 206 207 208	BSBW ADDL2 MOVL BSBW BLBC BSBW BLBC	RM\$FSETI_ALT #4,IMP\$L_SAVED_SP(R11) FAB\$L_NAM(R8),R7 RM\$CHKNAM RG,EXIT1 RM\$RECOVER_FWA RO,EXIT1	; allocate ifab/ifi ; adjust FSET saved sp for acp code ; get nam address ; check nam validity ; quit on failure ; recover fwa context ; branch if error

Page

(4)

VAX/VMS Macro V04-00 [RMS.SRC]RMSOSRCH.MAR:1

set default error code

branch aid

branch aid

If we are saving context (ifab/fwa) and we are searching a wildcard specification and no directory file has been read yet, then read the

directory file into memory to optimize on obtaining file names.

map ss error to rms error if possible

Page

(5)

SEARCH FOR NEXT WILDCARD FILE

RMS\$SEARCH, Search for next Filename in

RMSERR

RM\$MAPERR

EXIT1

ERROR

BSBW

BRB

BRW

30 11 31

00D3 00D6

0006

00D6 00D6 00D6

0006 00D6 00D6

FF2F

0147

```
16-SEP-1984 01:32:07
5-SEP-1984 16:25:32
                                                                                                            VAX/VMS Macro V04-00
[RMS.SRC]RMSOSRCH.MAR:1
                    SEARCH FOR NEXT WILDCARD FILE
                                                                                                                                                    Page
                    RMS$SEARCH. Search for next Filename in
                                                                 IFB$L LAST FAB(R9),R8
#IFB$V SEARCH,(R9),-
NEXT FILE
                    DO
E1
                           00DA
00DD
         24
                                                                                                  ; get fab address
; branch if not saving context
                                                      MOVL
                                     69
                                                      BBC
       6A
                     Ei
                           OODE
                                                      BBC
                                                                 #FWASV_WILDCARD, (R10), -; branch if non-wild string
                                                                 NEXT FILE
FWASC DIRBOB(R10)
NEXT FILE
RMSREADDIR
                     15
16
16
16
10
10
         30
                                                                                                     directory file read yet? if so, don't read again
                                                      TSTL
                           OUE 5
              OD
                                                     BNEQ
             50
57
 00000000
                                                      JSB
                                                                                                      read directory into memory
                           00ED
00F0
00F4
                                                                 RO, NEXT FILE
R7, FWASE_DIRBDB(R10)
                                                      BLBC
                                                                                                     branch if unable to read
   30 AA
                                                      MOVL
                                                                                                     save bdb address
                           00F4
                                             Get the file name pattern from the expanded name string
                           00F4
                           00F4
                                          NEXT_FILE:
                          00F4
         28 A8
FF05'
6A 50
0B A7
5F
  57
                                                                 FABSL NAM(R8),R7
                     DO
30
E9
9A
13
                                                      MOVL
                                                                                                     and recover nam address again
                          00F8
00F8
00F8
0104
0108
01108
01118
01128
01136
01138
01138
01148
                                                      BSBW
                                                                                                      check nam validity
                                                                                                      guit on failure
                                                      BLBC
                                                                 RO, EXIT2
                                                                NAMSB ESL(R7),R6
ERRESC
  56
                                                      MOVZBL
                                                                                                      length of expanded string
                                                      BEQL
                                                                                                      error if none
                                                                 NAMSL ESA(R7),R7
R6,(R7),ERRESA
#FSCB$C BLN,R2
RM$GETSPC1
  57
         OC A7
                     DO
                                                      MOVL
                                                                                                      address of expanded string
                                                      IFNORD
                                                                                                      error if cannot read buffer
                     30
E9
52
       0104 8F
                                                                                                      get size of FSCB
                                                      MOVZWL
           FEEA'
                                                      BSBW
                                                                                                      allocate it
             50
5B
51
                                                                 RO EXITE
                                                      BLBC
                                                                                                     exit on error
                     DD
                                                                                                      save impure area
                                                      PUSHL
                                                                 R1,R11
RM$SCAN_STRING
FSCB$Q_NAME(R11),R0
                     DO 16
7D 12
7D 12
7D 11
                                                      MOVL
                                                                                                      put FSCB in correct reg
 00000000 EF
                                                      JSB
                                                                                                      scan the string
              AB
                                                      MOVQ
                                                                                                      get name
                                                      BNEQ
                                                                                                     got one
                                                                 FSCB$Q_TYPE(R11),RO
  50
         34
              AB
                                                      MOVO
                                                                                                      how about type
              OA
                                                      BNEQ
                                                                                                      got one
                                                                 FSCB$Q_VERSION(R11),RO
         30
              AB
08
  50
                                                      MOVQ
                                                                                                      try version
                                     301
302
303
304
305
306
307
                                                     BRB
                                                                                                     exit
                                                                FSCB$Q_TYPE(R11),R0
FSCB$Q_VERSION(R11),R0
R0,FWA$Q_RNS(R10)
R1,FWA$Q_RNS+4(R10)
R11,R4
                     A0
A0
B0
D0
  50
         34
30
              AB
                                                      ADDW2
                                                                                                     add type
              AB
50
51
                                          20$:
30$:
                                                      ADDW2
                                                                                                      add version
0188
0180
                                                      WVOM
                                                                                                     set string descriptor length (no flags)
                                                                                                      and address
                                                      MOVL
              5B
5B
                                                      MOVL
                                                                                                     get ready to return
                  8EDO
30
30
85
12
                          014B
                                                      POPL
                                                                 R11
                                                                                                     restore impure area
                          014E
0153
0156
015A
                                                                #FSCBSC_BLN,R2
RMSRETSPC1
       0104
              8F
                                                      MOVZWL
                                     309
           FEAA'
                                                      BSBW
                                                                                                     return FSCB
                                     310
311
                                                      TSTW
                                                                 FWASQ_RNS(R10)
       0188
                                                                                                     valid string for ACP?
                                                                 SETFIB
                                                      BNEQ
                           015C
                                                                 ESA
EXIT2
                                          ERRESA: RMSERR
                                                                                                   ; set esa error
              05
                          0161
                     11
                                                      BRB
                           0163
                                          ERRESL: RMSERR
                                                                 ESL
                           0163
                                                                                                   ; set est error
           018A
                     31
                          0168
                                          EXIT2:
                                                     BRW
                           016B
                           016B
016B
016B
016B
016B
                                           .ENABL LSB
                                             Setup fib fields
```

RMSOSRCH VO4-000

	SEARCH RMS\$SEA	FOR NEXT WILDCARD ARCH, Search for ne	FILE 16-SEP-1984 01:32:07 V	AX/VMS Macro V04-00 Page 9 RMS.SRCJRMSOSRCH.MAR;1 (5)
14 A1 0100 8F 10 AA 00000040 8F 14 AA 51	9E 01 B0 01 D0 01 3C 01	176 327 M 17E 328 M	NOVW #FIBSM_WILD, FIBSW_NMCTL(R1) NOVL #FIBSC_LENGTH, FWASQ_FIB(R10) NOVL R1, FWASQ_FIB+4(R10) NOVZWL #FWASS_NAMEBUF+- FWASS_TYPEBUF+FWASS_VERBUF,-	; fib address ; set wildcarding on ; create fib descriptor
0170 CA 012E 8F	01 01 01 01	189 335 : find vi	FWA\$Q_NAME(R10) ove and the nam fop bit is set, set fib is a fid rather than by name.	; set length of result buffer bit to do
35 6E 0F 0A 04 A8 18 0A A1 05	12 01 E1 01 D5 01	180 338 C 18C 339 B 18E 340 B 193 341 T	MPB (SP),#IO\$_DELETE 20\$ BC #FAB\$V_NAM,FAB\$L_FOP(R8),20\$ FIB\$W_DID(R1) BEQL 20\$ BSB #FIB\$V_FINDFID,FIB\$W_NMCTL(R1)	remove function? branch if not branch if nam bit not set fid supplied? branch if not find by fid
	01 01 01 01	19D 346: If the 19D 347; memory,	directory file has already been read in then skip the call to the acp and look next file name in sequence.	to virtual in memory
32 6E 13 57 30 AA 0D 52 0188 CA 00000000 EF 13	7D 01 16 01 11 01	1A8 355 M 1AD 356 J 1B3 357 B	MPB (SP),#IO\$_ACCESS INEQ 22\$ IOVL FWA\$L_DIRBDB(R10),R7 IEQL 22\$ IOVQ FWA\$Q_RNS(R10),R2 ISB RM\$DIRSCAN IRB 24\$	access function? only on searches is there a directory in memory? call acp if not pass descriptor of file name find the next find in sequence re-join after acp call
	01 01 01	185 359 ; 185 360 ; Call ac 185 361 ;	p for next file in this directory	
50 6E 7E 0170 CA	00 70 9F 01	1B8 364 C 1BA 365 P 1BE 366	OVL (SP),RO LRQ -(SP) PUSHAB FWA\$Q_NAME(R10)	get acp function code p5/p6 = 0 p4 = result descriptor also input to acp as previous
6C A9	9F 01	18E 367 18E 368 P 1C1 369	PUSHAB IFB\$L_RNS_LEN(R9)	also input to acp as previous position (file) in directory p3 = longword to receive length also input to acp as previous position (file) in directory p2 = name descriptor
0188 CA FE38 07 50 00B7	9F 01 30 01 E9 01 31 01	1C5 372 1C8 373 24\$: B 1CB 374 S 1CF 375 B	PUSHAB FWA\$Q RNS(R10) ISBW RM\$FCPFNC ILBC RO,ACPERR ISB #IFB\$V FILEFOUND,(R9) IRW COPY_RESULT	; position (file) in directory ; p2 = name descriptor ; call acp and wait for reply ; branch if error from acp ; indicate at least one file found ; and copy result string
21 6A 1C	E1 01	1D2 376 1D2 377 ACPERR: B		: if there are no wild directories
0910 8F 50 24	01	1D6 378 1D6 379 C 1DB 380 B	MPW RO. #SS\$ NOSUCHFILE	report fnf if none were no files in directory at all? if so, get next directory

RMSOSRCH V04-000

			SEAR RMS\$	CH FOR NEX	WILDCAR arch for	D FILE next Fil	ename in 5-SEP-1984 01:32:07	VAX/VMS Macro VO4-00 Page 10 (5)
0930 51		50 1D E CA C AA	B1 13 B4 D0	01DD 38 01E2 38 01E4 38 01E6 38 01EC 38 01EC 38		CMPW BEQL CLRW MOVL SSB	RO, #SS\$ NOMOREFILES NEXT_DIR FWAST_FIBBUF+FIB\$W_DID(R10) FWASI_SWB_PTR(R10),R1 #SWB\$V_TRAVERSE,-	; no more files in directory? ; if so, get next directory ; mark fresh directory needed ; get SWB ptr ; set to skip rest of subtree
0828		50 0A FE01'	B1 13 30 11	01F0 38 01F5 38 01F7 38 01FC 39 01FF 39	25\$:	CMPW BEQL RMSERR BSBW BRB	NEXT_DIR FWAST_FIBBUF+FIBSW_DID(R10) FWASL_SWB_PTR(R10),R1 #SWB\$V_TRAVERSE,- SWB\$B_FLAGS(R1) RO,#S\$\$_BADIRECTORY NEXT_DIR FND,R1 RM\$MAPERR ERROR	; bad directory format? ; ignore bad directories on traversa ; set default error ; map error to rms error ; process other type of error
				0201 39 0201 39 0201 39	If no	more fi	les in directory, skip to next	directory
	69	0168 04 10	30 E0	0201 399 0201 399 0201 399 0204 399 0207 400	7 NEXT_DI	R: BSBW BBS	RETDIRBDB #DEV\$V_SDI,IFB\$L_PRIM_DEV(R9), ERRNMF	; deallocate directory buffer -; nmf if sdi device
0000	020	O'EF C 50 4 CA FEBE	16 E9 D4 31	0208 400 020E 400 0211 400 0215 400	2	JSB BLBC CLRL BRW	RM\$NEXTDIR RO,ERROR FWA\$T_FIBBUF+FIB\$L_WCC(R10) READ_DIR	; get next directory ; if error, copy result and exit ; start at 1st file in directory ; and then get next file
				0218 40 0218 40 021D 40	ERRNMF:	RMSERR	NMF	; no more files
				021D 400 021D 400 021D 410 021D 410	; If th ; then ; it ga	ere is n the ACP ve us.	o wild card directory and the u is maintaining context and we s	ser did not specify NAM\$V_SVCTX, hould just return the error
				021D 41 021D 41 021D 41 021D 41	If we conve	are mai rt NMF t	ntaining context (wild director of FNF based on FILEFOUND bit.	y or NAM\$V_SVCTX), then we should
4F 4B 82CA	69 69 8F	39 30 50 44	E1 E0 B1 12	021D 410 021D 411 0221 411 0225 410 022A 420 022C 42	ERROR:	BBC BBS CMPW BNEQ	#IFB\$V_SEARCH,(R9),35\$ #IFB\$V_FILEFOUND,(R9),35\$ RO,#RMS\$_NMF&^XFFFF 35\$; we are not keeping context ; skip if file found ; and error was NMf
				022A 420 022C 420 022C 420 022C 420 022C 420	If the	ere was amblk to	a wild directory, move the expandent the resultant name string and	nded name string from return file not found
40 58 57	6A 2	1C 4 A9 8 A8 FDC5' 9 50	E1 D0 30 E9 94 9A	022C 42C 022C 42C 022C 42C 023C 42C 023C 42C 023B 43C 023B 43C 023B 43C 024F 43C 024F 43C 024F 43C		BBC MOVL MOVL BSBW BLBC	#FWASV_WILD_DIR,(R10),35\$ IFB\$L_CAST_FAB(R9),R8 FAB\$L_NAM(R8),R7 RM\$CHENAM R0,44\$; branch if dir not wild ; get the last fab's addr ; get the name block addr ; check nam validity ; quit on failure
52 53	000	9 50 3 A7 2 A7 4 B7	94 9A DE	023E 43 0241 43 0245 43 0249 43		CLRB	NAMSB_RSL(R7) NAMSB_RSS(R7),R2 aNAMSC_RSA(R7),R3 R2,(R37,50\$; assume can't set result string ; get length of resultant buffer ; get addr of resultant buffer
52	0	A A7	9A	024F 43	7	MOVZBL	NAMSB_ESS(R7),R2	; probe the resultant string buff ; error if can't write it ; get the buffer size into longword

RMSOSRCH VO4-000

	SEARCH FOR NEXT WILDCARD FILE RMS\$SEARCH, Search for next fil	G 2 16-SEP-1984 01:32:07 ename in 5-SEP-1984 16:25:32	VAX/VMS Macro VO4-00 Page 11 [RMS.SRC]RMSOSRCH.MAR;1 (5
51 OC B7	DE 0253 438 MOVAL 0257 439 IFNORD	anamsL_ESA(R7),R1 R2,(R1),50\$; get addr of expanded buffer ; probe the expanded string buff
52 OB A7 03 A7 52 63 61 52	DE 0253 438 MOVAL IFNORD 0257 439 IFNORD 025D 440 MOVZBL 90 0261 442 MOVB 128 0265 443 MOVC3 0269 444 0269 445 RMSERR	NAMSB ESL(R7), R2 R2, NAMSB RSL(R7) R2,(R1),(R3)	; error if can't read it ; get the string's actual length ; stuff the resultant length ; move the expanded string
39	11 0269 445 RMSERR 11 026E 446 BRB	FNF 50\$; to the resultant string ; restore the error ; and continue
	0270 448 : 0270 449 : Error has occ 0270 450 : name string i 0270 451 :	urred - setup file name so that s copied, the file string sent	when result to acp is returned.
15 6A 19 50 6C A9 0188 CA 18C DA 0188 CA 0486 CA	0270 450 ; name string i 0270 451 ; 0270 452 ; E0 0270 453 35\$: BBS DD 0274 454 PUSHL 3C 0276 455 MOVZWL 28 027C 456 MOVC3 0283 457 3ED0 0286 458 POPL	#FWASV_NODE,(R10),COPY_RESULT RO FWASQ_RNS(R10),IFBSL_RNS_LEN(R FWASQ_RNS(R10), aFWASQ_RNS+4(R1	; save status code 9); set length of string
50 8	SEDO 0286 458 POPL 0289 459 0289 460 :	FWAST_NAMEBUF (R10)	; restore status
	0289 461 : Copy result f	ile name to user result buffer e was found	
58 24 A9 57 28 A8 FD6A 0B 50 0092 05 50 50 8	0289 462 : unless no fil 0289 463 : 0289 464 0289 465 COPY_RESULT: DD 0288 467 MOVL DO 028F 468 MOVL 30 0293 469 BSBW E9 0296 470 BLBC 30 0299 471 BSBW E9 029C 472 BLBC EP 029C 472 BLBC EP 029C 473 POPL 11 02A2 474 BRB CO 02A4 475 42\$: ADDL 11 02A7 476 44\$: BRB	RO IFB\$L_LAST_FAB(R9),R8 FAB\$L_NAM(R8),R7 RM\$CHRNAM RO,42\$ RM\$COPY_RESULT RO,42\$ RO 50\$ #4,SP EXIT	; save status code ; get fab address ; set nam address ; check nam validity ; quit on failure ; copy result name string ; branch if error ; restore status code ; and continue ; ignore saved status code
	02A9 477 02A9 478; 02A9 479; If not remove	, copy fid and did into nam blo	; and report one from copy_result
35 6E 10 0C 6A 19	11 02A2 474 CO 02A4 475 42\$: ADDL 11 02A7 476 44\$: BRB 02A9 477 02A9 478; 02A9 480; 02A9 480; 02A9 481 91 02A9 482 50\$: CMPB 13 02AC 483 EO 02AE 484 BBS 02B2 486 ASSUME 02B2 487 ASSUME 02B2 488 7D 02B2 489 MOVQ DO 02BE 491 02BE 491 02BE 493; If this is a	(SP),#IO\$_DELETE 60\$ #FWA\$V_NODE,(R10),60\$	<pre>; remove function? ; if so, skip this ; skip also if network operation</pre>
	02B2 485 02B2 486 ASSUME 02B2 487 ASSUME	FIBSW_DID EQ FIBSW_NAMSW_DID EQ NAMSW_	F ID+6 F ID+6
24 A7 01F8 CA 2C A7 0200 CA	7D 02B2 488 D0 02B8 490 MOVL 02BE 491	FWAST_FIBBUF+FIBSW_FID(R10),NAI FWAST_FIBBUF+FIBSW_FID+8(R10),	M\$W_FID(R7) NAM\$W_FID+8(R7)
		temporary ifab/fwa created for we the current acp position in	this call the directory

RMSOSRCH VO4-000

SEARCH FOR NEXT WILDCARD FILE RMS\$SEARCH, Search for next Filename in 5-SEP-1984 01:32:07 VAX/VMS Macro V04-00 Page 13 (5)

8292 8F 50 B1 0320 553 CMPW RO,#RMS\$_FNF&^XFFFF ; file not found in no exit convert the error gray of th

RI V

#FWA\$V_NODE,(R10),5\$
IFB\$L_RNS_LEN(R9),FWA\$Q_NAME(R10)
#FWA\$V_DIR,(R10),5\$
#FWA\$V_WILD_DIR,(R10),5\$
#1,FWA\$B_DIRLEN(R10),R0
RO,#FWA\$V_DIR_LVLS,#FWA\$S_DIR_LVES,(R10)
RO,#NAM\$V_DIR_LVLS,#NAM\$S_DIR_LVES,NAM\$L_FNB(R7)
FWA\$B_DIRWCFLGS(R10),NAM\$L_FNB+3(R7) 6C A9 0170 C 6A 0 5 6A 2E AA 1D 6A 15 CAE 1010503037 AA7 MOVB 67'AF 24 A7 24 A7 FC9E' 24 A7 9E 0D 04 30 8E00 5\$: B^10\$, AP MOVAB NAMSW_FID(R7) NAMSW_FID(R7) RMSEXPSTRING PUSHL CLRL BSBW NAMSW_FID(R7) POPL RSB 105: .BYTE NAMSL_RSA RMSERR WORD RMSERR_WORD RSS

; if any ellipses were found, ; set the appropriate wild ; flags in the nam blk ; address of expstring arg list ; save contents of nam fid ; clear fid so expstring will work ; return result name string ; restore contents of nam fid S

P

; offset to result buffer addr. ; error of bad buffer ; error of buffer too short PUSHL

MOVL

BSBW

POPL

CLRL

.END

RSB

10\$:

FC86' 5A 30 AA

R10

R10

R9,R10

RM\$RETBDB

FWA\$L_DIRBDB(R10)

save r10

; restore r10

; and clear pointer

: rm\$retbdb wants ifb address in r10 ; deallocate it if there is

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Page

-11 TH

MA

RMSOSRCH Symbol table	SEARCH FOR NEXT	WILDCARD		L 2	16-SEP-1984 5-SEP-1984	01:32:07 16:25:32	VAX/VMS Macro V04-00 [RMS.SRC]RMSOSRCH.MAR;1	Page	16
\$\$.PSECT_EP \$\$RMSTEST \$\$RMS_PBUGCHK \$\$RMS_UMODE ACPERR CHKLST COMMON COPY_RESULT DEV\$V_SDI DEV\$V_SDI DEV\$V_SPL ENS ERRESA ERRESL ERRIOP ERRNMF ERROR ERRUCC EXIT EXIT1 EXIT2 FAB\$L_FOP FAB\$L_NAM FAB\$L_STV FAB\$L_NAM FAB\$L_STV FAB\$V_IFI FIB\$C_LENGTH FIB\$C_LENGTH FIB\$C_LENGTH FIB\$L_WCC FIB\$M_WILD FIB\$W_IFI FIB\$C_LENGTH FIB\$C_LENCTH FIB\$C_L	= 000000000000000000000000000000000000	01 01 01 01 01 01 01 01 01 01 01 01 01	NAMSB- NAMSB- NAMSB- NAMSB- NAMSB- NAMSS- NAMS- NAMS- NAMSS- NAMS- NAMS- NAMSS- NAMSS- NAMSS- NAMSS- NAMSS- NAMSS- NAMSS- NAMSS- NAMSS-	TRACE		= 000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000 = 00000 = 0000 = 0000	0001C 0008C 0003B 00024 00000 0006C 00025 00025 0003F 0003F 00039 00003 00003 00003 00002 00003 00002 00000 00000 00000 00000 000015 00010 00015 00010 00015 00010 0002D R 01 ***** X 01 **** X 01		

.

```
RMSOSRCH
                                                                                                                          16-SEP-1984 01:32:07
5-SEP-1984 16:25:32
                                                      SEARCH FOR NEXT WILDCARD FILE
                                                                                                                                                               VAX/VMS Macro V04-00
[RMS.SRC]RMSOSRCH.MAR;1
                                                                                                                                                                                                              Page
Symbol table
                                                                                                                                                                                                                        (7)
 RM$RETBDB
                                                        *******
RMSRETSPC1
RMSSCAN_STRING
RMSSREMOVE
                                                                                 01
                                                        ******
                                                   *******
                                                                                01
                                                                                01
RMS$REMOVE
RMS$SEARCH
RMS$_DNF
RMS$_ESA
RMS$_ESL
RMS$_FNF
RMS$_FNF
RMS$_IFI
RMS$_IOP
RMS$_RSS
RMS$_RSS
RMS$_RST
RMS$_WCC
SETFIB
SRCH
                                                                                 01
                                                                                01
SRCH
SS$_BADIRECTORY
SS$_NOMOREFILES
SS$_NOSUCHFILE
SWB$B_FLAGS
SWB$V_TRAVERSE
TPT$L_SEARCH
                                                    = 00000004
                                                                                01
                                                                                    Psect synopsis
PSECT name
                                                                                       PSECT No.
                                                      Allocation
                                                                                                         Attributes
                                                      00000000
     ABS
                                                                           897.)
                                                                                                 0.)
                                                                                                          NOPIC
                                                                                                                                                     LCL NOSHR NOEXE NORD GBL NOSHR EXE RD
                                                                                                                                                                                         NOWRT NOVEC BYTE
                                                                                                                                           ABS
RM$RMS
                                                      00000381
                                                                                                            PIC
                                                                                                                       USR
                                                                                                                                 CON
                                                                                                                                           REL
                                                                                                                                                                                         NOWRT NOVEC BYTE
$ABS$
                                                                              0.)
                                                      00000000
                                                                                                                       USR
                                                                                                                                 CON
                                                                                                                                                                                   RD
                                                                                                                                                     LCL NOSHR
                                                                                                                                                                                             WRT NOVEC BYTE
                                                                              Performance indicators
Phase
                                          Page faults
                                                                   CPU Time
                                                                                            Elapsed Time
                                                                   00:00:00.12
00:00:00.70
00:00:21.26
00:00:03.48
00:00:03.92
00:00:00.16
00:00:00.02
00:00:00.00
                                                                                            00:00:00.72
00:00:04.02
00:00:53.49
00:00:05.19
00:00:09.10
00:00:00.56
00:00:00.09
00:00:00.09
Initialization
Command processing
Pass 1
Symbol lable sort
                                                      130
17
Pass 2
Symbol table output
Psect synopsis output
Cross-reference output
Assembler run totals
```

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The working set limit was 1800 pages.
119924 bytes (235 pages) of virtual memory were used to buffer the intermediate code.
There were 130 pages of symbol table space allocated to hold 2357 non-local and 34 local symbols.
644 source lines were read in Pass 1, producing 15 object records in Pass 2.
32 pages of virtual memory were used to define 31 macros.

Page

SEARCH FOR NEXT WILDCARD FILE

16-SEP-1984 01:32:07 VAX/VMS Macro V04-00 5-SEP-1984 16:25:32 [RMS.SRC]RMSOSRCH.MAR;1

Macro library statistics !

N 2

Macro Library name

RMSOSRCH

Macros defined

_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)

VAX-11 Macro Run Statistics

16 38 27

2488 GETS were required to define 27 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSOSRCH/OBJ=OBJ\$:RMSOSRCH MSRC\$:RMSOSRCH/UPDATE=(ENH\$:RMSOSRCH)+EXECML\$/LIB+LIB\$:RMS/LIB

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